

ABSTRACT

The invention is concerned with a device for clamping and releasing work tools (16) in a tool receptacle (10). The tool receptacle (10) includes on its free end for this purpose an open socket part (12), which is adapted for frictional engaging reception of the work tool shaft (14). The work tool shaft is thereby shrunk-fit into a borehole (20) in the socket part (12). For this purpose the socket part is provided with an induction coil (26) encircling the tool receptacle (10) which coil can be acted upon by high frequency alternating current for producing heat and heating the socket part (12). For avoidance of leakage fields which could result in a undesired heating of the work tool (16), it is proposed in accordance with the invention that the induction coil (26), on its surface adjacent the free end of the socket part (12), is covered over by a pole shoe (34) having a central through hole (36) for the work tool (16) and comprised of a magnetically conductive and electrically non-conductive material.